FIG 1
PRIOR ART

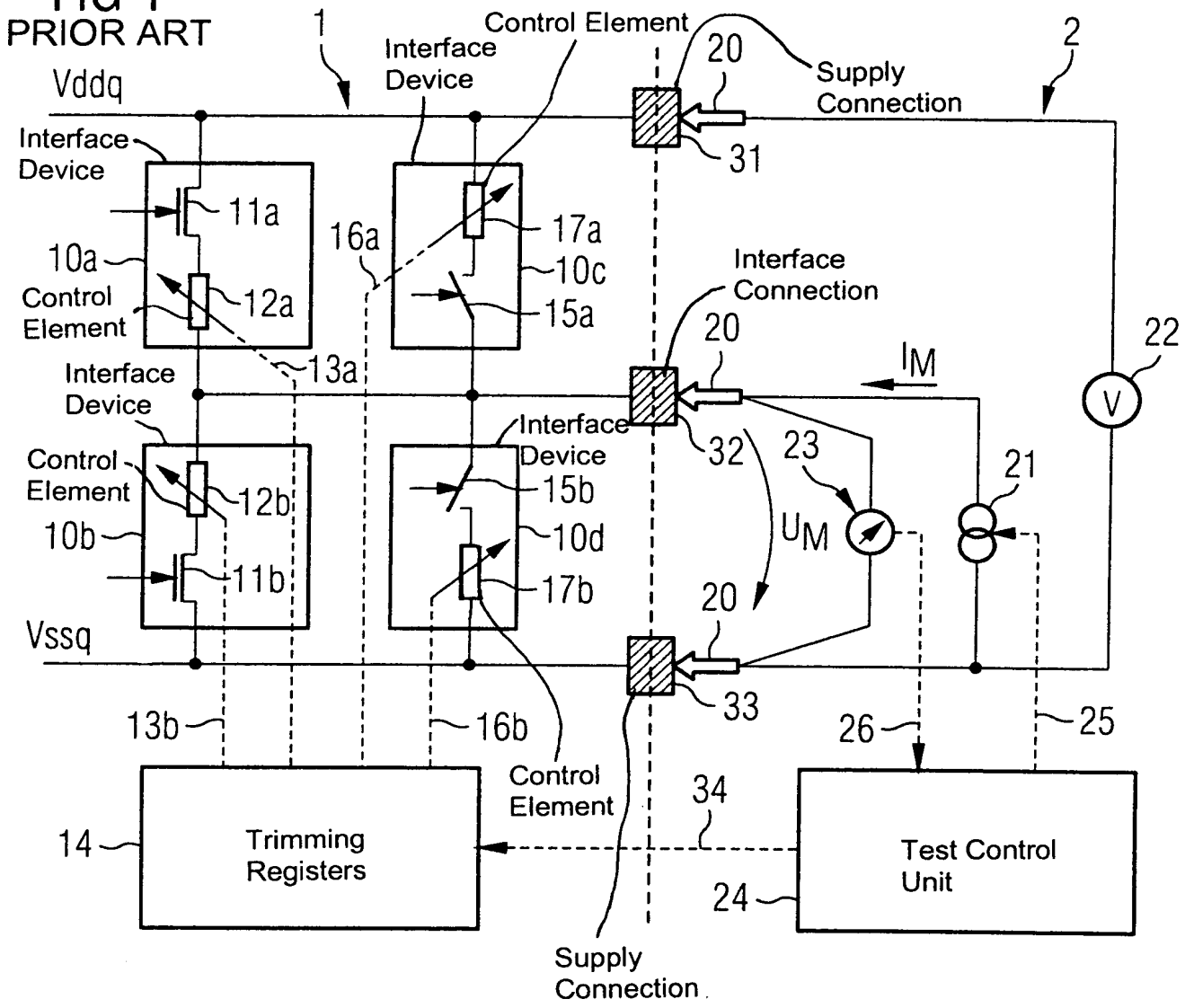


FIG 2
PRIOR ART

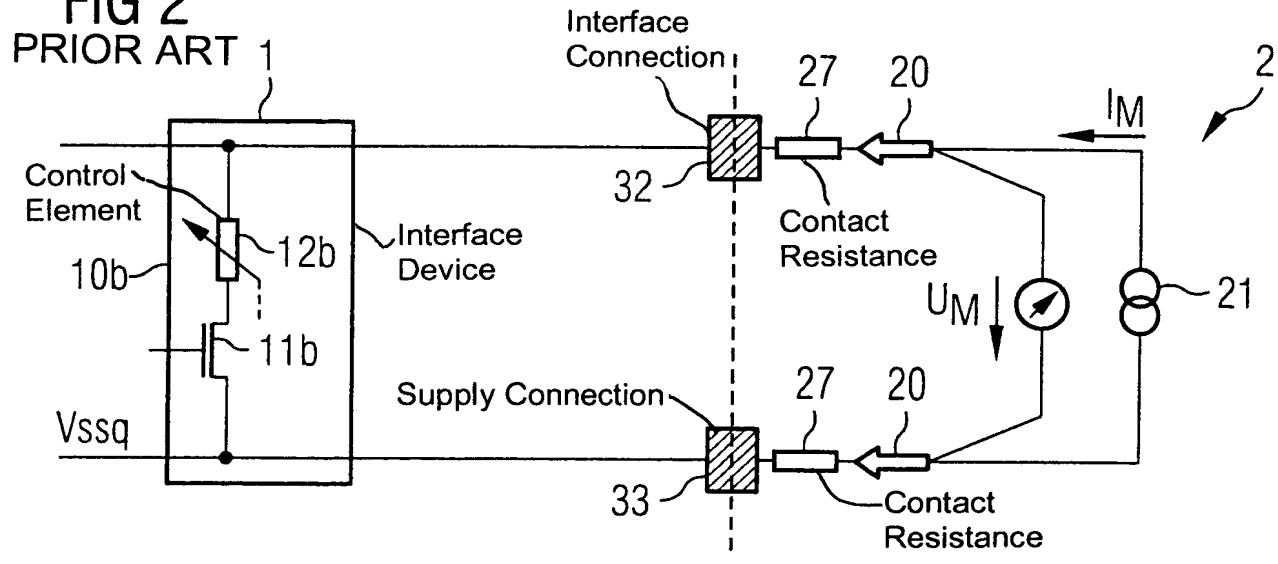


FIG 3

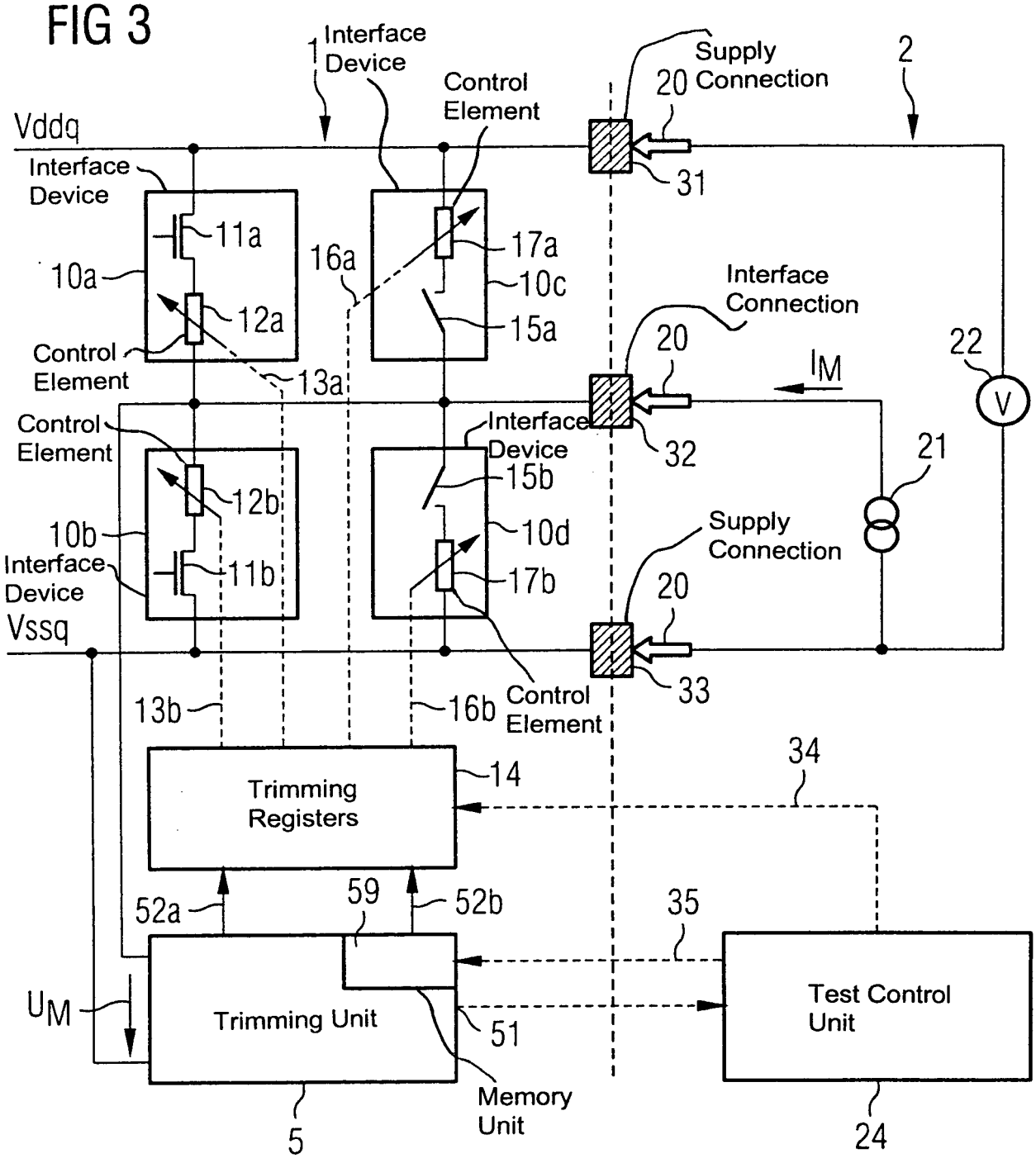
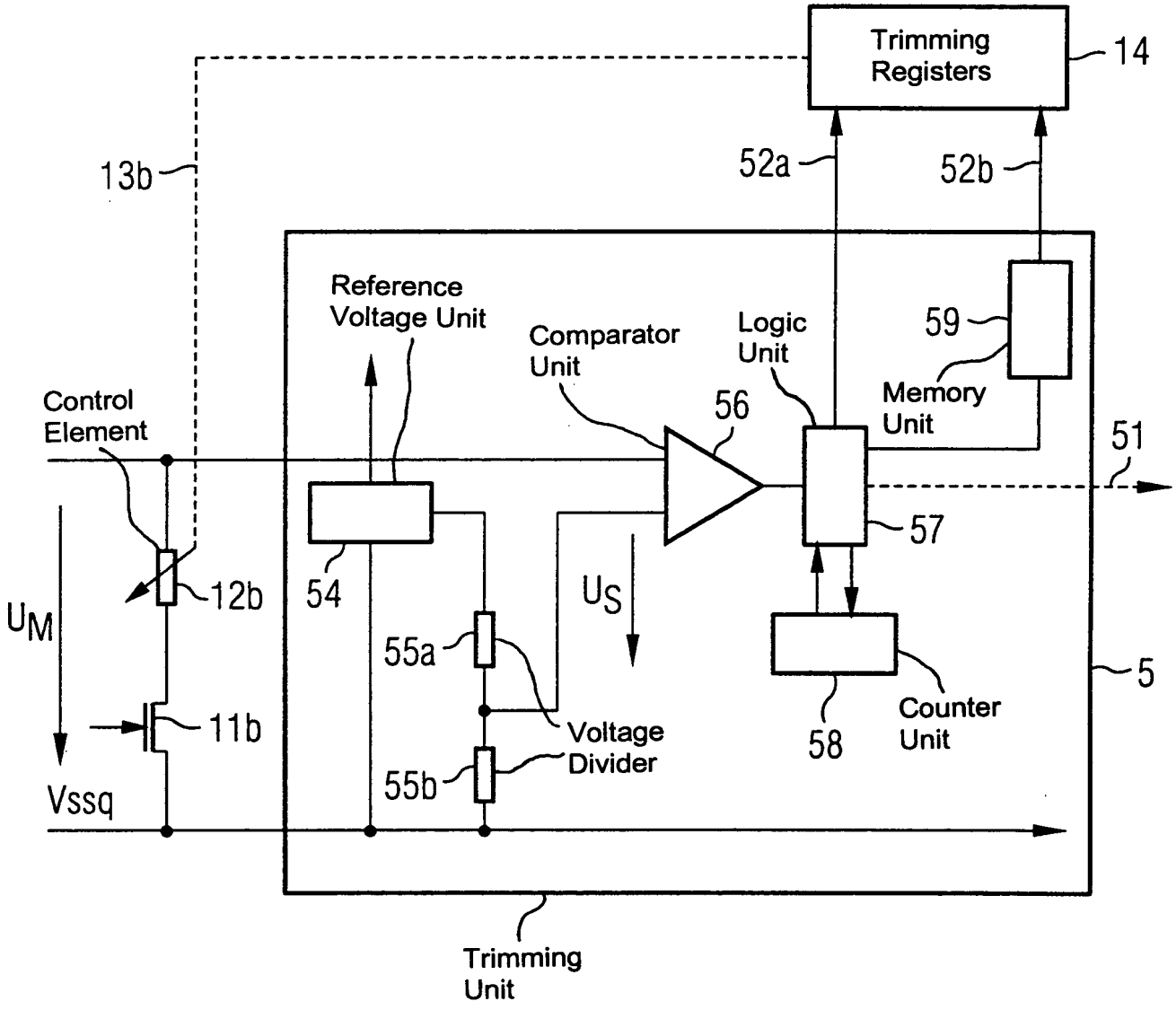

1
Interface Device
Control Element
Supply Connection
20
2
Vddq
Interface Device
11a
10a
12a
16a
17a
10c
15a
Control Element
13a
Interface Connection
20
IM
22
V
32
Control Element
Interface Device
15b
12b
21
10b
10d
Supply Connection
Interface Device
11b
17b
20
Vssq
33
13b
16b
Control Element
34
Trimming Registers
14
52a
59
52b
35
UM
Trimming Unit
51
Test Control Unit
Memory Unit
5
24

FIG 4


Trimming Registers
14
13b
52a
52b
Reference Voltage Unit
Comparator Unit
Logic Unit
59
Memory Unit
Control Element
56
51
57
12b
54
U_M
U_S
55a
5
11b
Voltage Divider
58
Counter Unit
Vssq
55b
Trimming Unit